



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

ES Windows, LLC  
3550 NW 49th Street  
Miami, FL 33142

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "ES-H340 Thermal" Aluminum Single Hung Window – S.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W15-01** titled "ES-H340 Thermal Alum Single Hung Wdw. (S.M.I.)", sheets 1 through 9 of 9, dated 01/09/15, with revision A dated 05/21/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia S.A.**, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*MP*  
6/17/15

NOA No. 15-0129.11  
Expiration Date: June 25, 2020  
Approval Date: June 25, 2015  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W15-01**, titled "ES-H340 Thermal Alum Single Hung Wdw. (S.M.I.)", sheets 1 through 9 of 9, dated 01/09/15, with revision A dated 05/21/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Small Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
7) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94  
along with marked-up drawings and installation diagram of model ES-H340 aluminum single hung windows, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7607**, dated 06/12/14, signed and sealed by Idalmis Ortega, P.E.

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 11/11/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0129.11  
Expiration Date: June 25, 2020  
Approval Date: June 25, 2015

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**E. MATERIAL CERTIFICATIONS (CONTINUED)**

2. Test report No. **ATI-60520.02-106-18**, prepared by Architectural Testing, Inc., dated 11/09/06, with revision date 11/29/06, issued to **Ensinger, Inc.**, for their **Tecatherm® 66GF insulbar material** comprised of Polyamide 66 with 25% glass fibers, per **ASTM G 155-00ae1**, "*Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of /Non-Metallic Materials*", per **ASTM D638-03** "*Standard Test Methods for Tensile Properties of Plastics*", for exposed & unexposed sample per Xenon Arc after 4500 Hours, **ASTM D635-98** "*Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*", **ASTM D1929-96** (2000)e01 "*Standard Test Method for Determining Ignition Properties of Plastics*" and **ASTM D2843-99** "*Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics*" and **ASTM D2843-99** "*Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics*", signed and sealed by Joseph A. Reed, P.E.
3. Standard Material Values Data Sheet from **Ensinger** for "***Tecatherm 66 GF*** Polyimide 66 with 25% glass fibers, black- Mechanical Properties and Thermal Properties.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, and of no financial interest, dated January 12, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Testing proposal issued by the Product Control Section, dated 04/15/13, signed by Jaime Gascon, P.E., Product Control Supervisor.

**G. OTHERS**

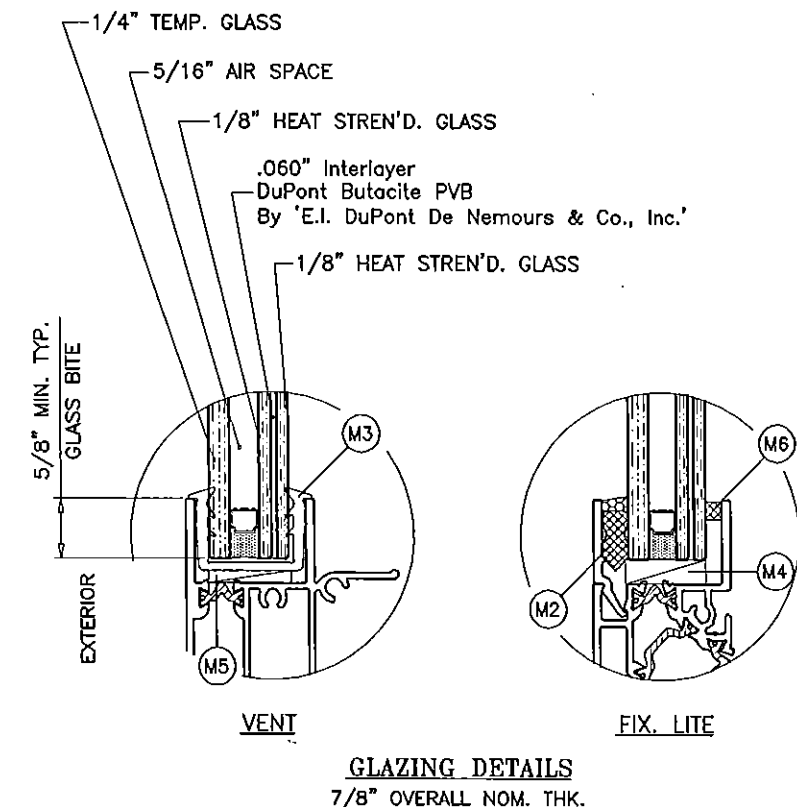
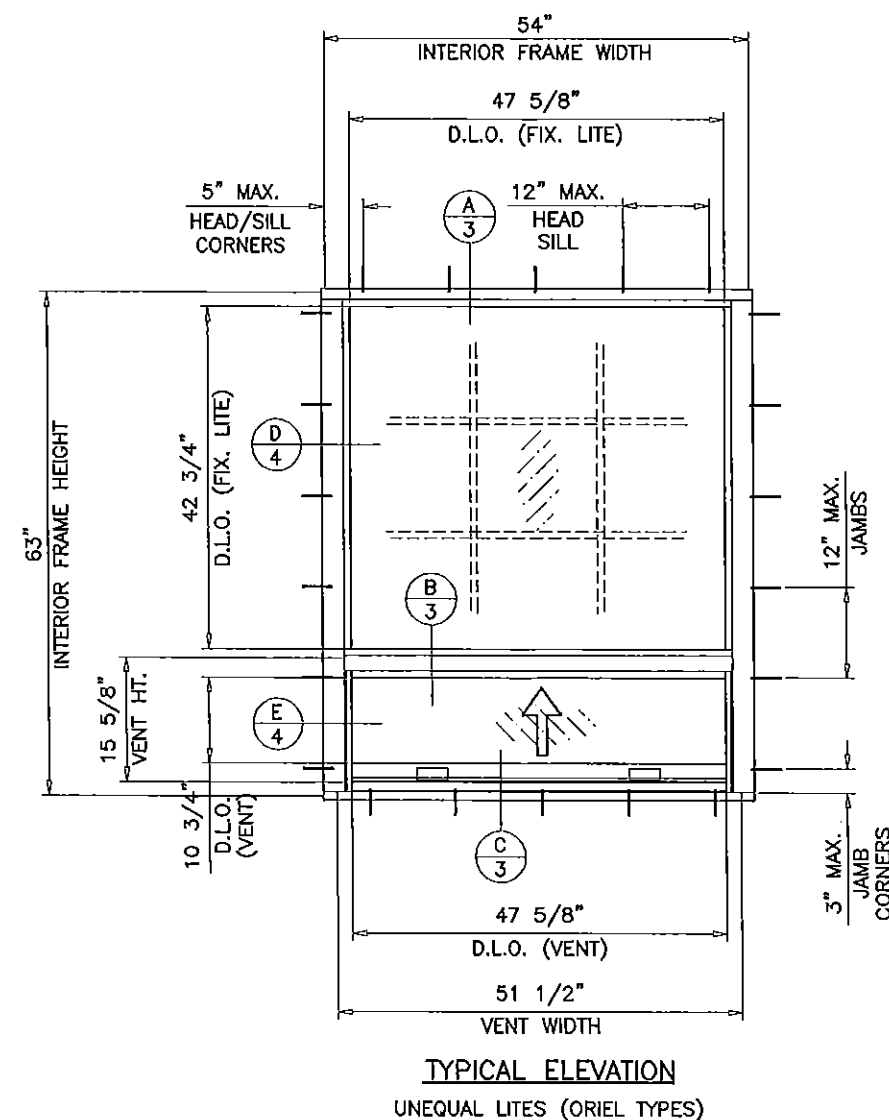
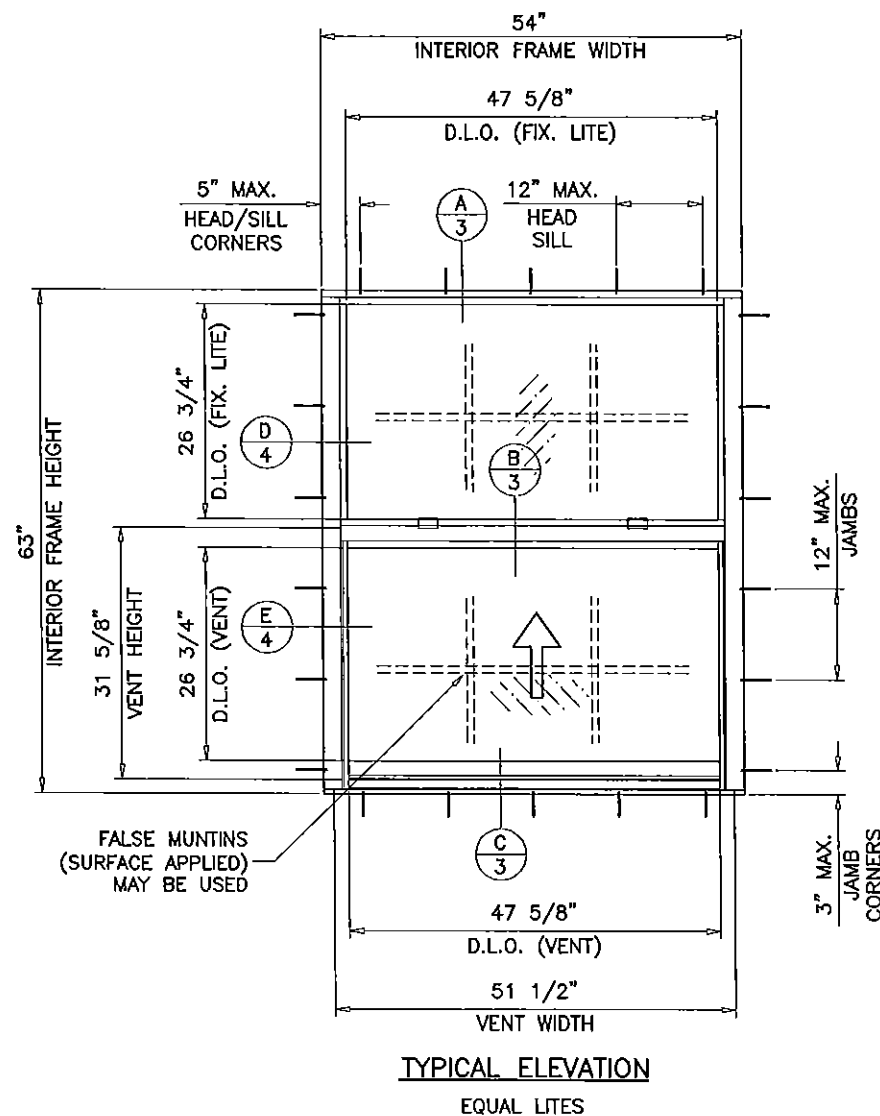
1. None.

  
Manuel Perez, P.E.  
Product Control Examiner

NOA No. 15-0129.11

Expiration Date: June 25, 2020

Approval Date: June 25, 2015



## ES-H340 (S.M.I.)

### THERMAL ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.  
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538

MAY 27 2015

Approved as complying with the  
Florida Building Code  
Date: June 25 2015  
NOAH 15-0129.11  
Miami Dade Product Control

By: *[Signature]*

ES-H340 THERMAL ALUM SINGLE HUNG WDW. (S.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

NO	DATE	BY	DESCRIPTION
A	05.21.15		REV. PER PER COMMENTS

date:	01-09-15
scale:	1/2"=1'-0"
dr. by:	HAMID
chk. by:	

drawing no.  
W15-01

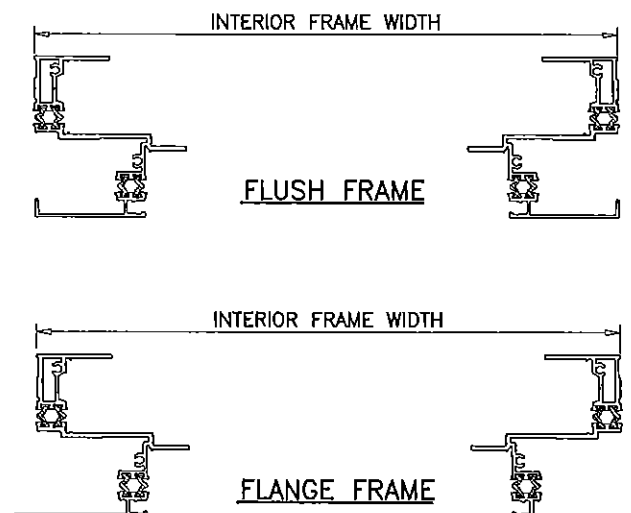
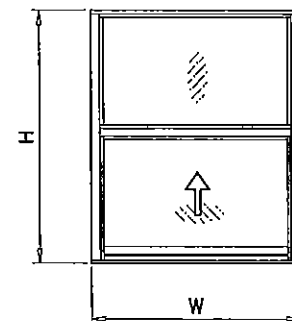
sheet 1 of 9

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL\W15-01ESW

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	25" (3)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"	37-3/8" (4)	80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"	49-5/8" (5)	80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"	55" (5)	80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"	62" (6)	80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"	73-1/4" (7)	80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"	75" (7)	80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"	81" (8)	80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	88.9
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	73-1/4" (7)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"	75" (7)	80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"	81" (8)	80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0

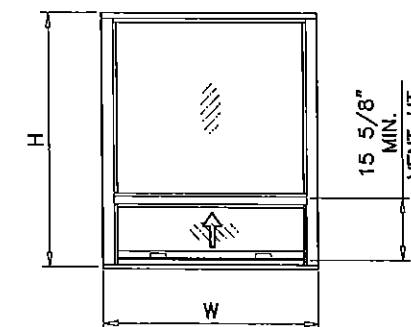
\* NUMBER IN PARENTHESIS INDICATE  
MIN. NO. OF ANCHORS PER JAMB.



NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

UNEQUAL LITES (ORIEL TYPE) WDWS. DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	49-5/8" (5)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"	55" (5)	80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"	62" (6)	80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	88.9
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"	69" (7)	80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"	73-1/4" (7)	80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"	75" (7)	80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"	81" (8)	80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0

\* NUMBER IN PARENTHESIS INDICATE  
MIN. NO. OF ANCHORS PER JAMB.



Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
MAY 27 2015

Approved as complying with the  
Florida Building Code  
Date June 25, 2015  
NOA# 15-8129-11  
Miami Dade Product Control  
By Manuel Perez

**AL-FAROOQ CORPORATION**  
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COMP-ANL\W15-01ESW

ES-H340 THERMAL ALUM SINGLE HUNG WDW. (S.M.I.)

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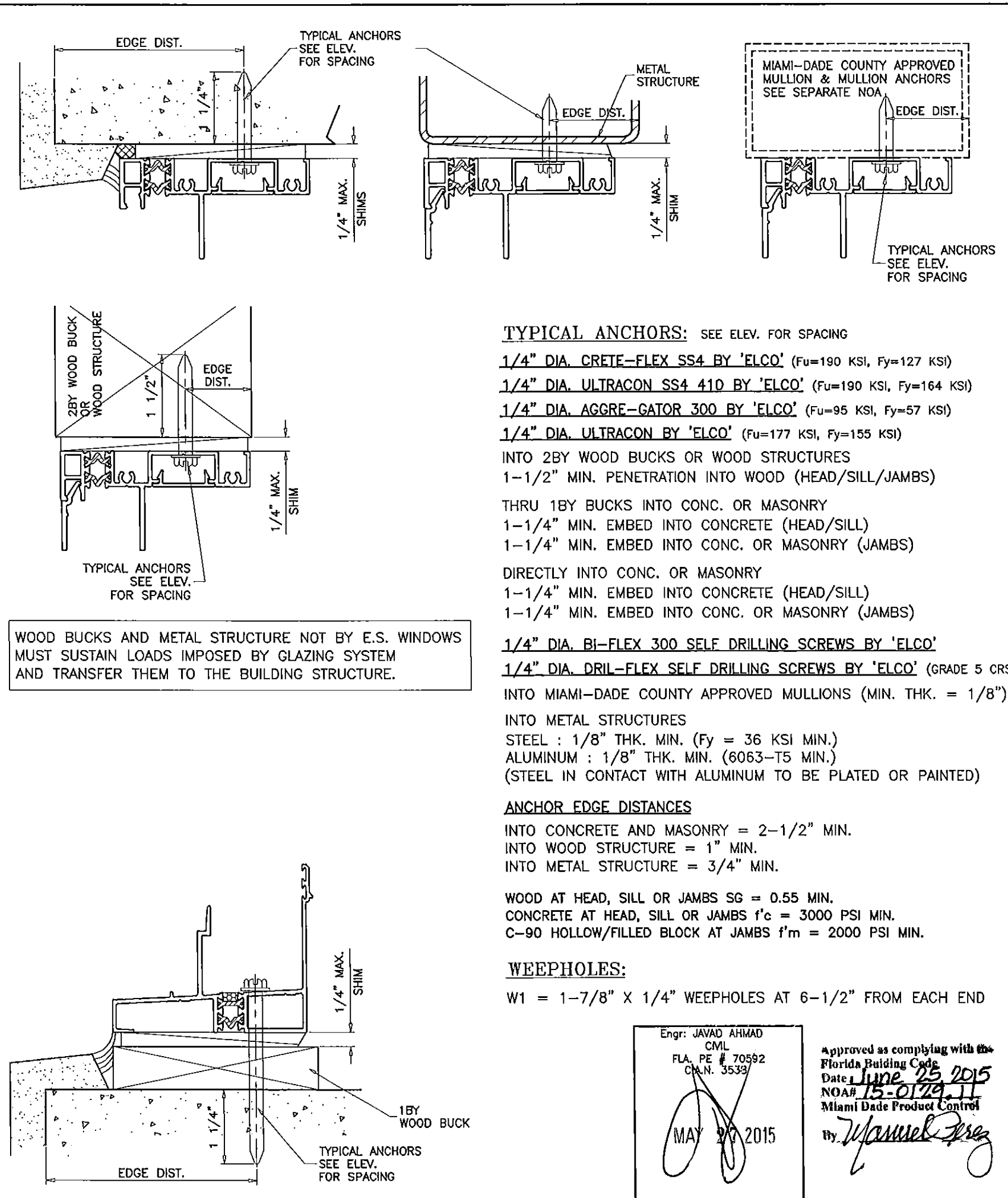
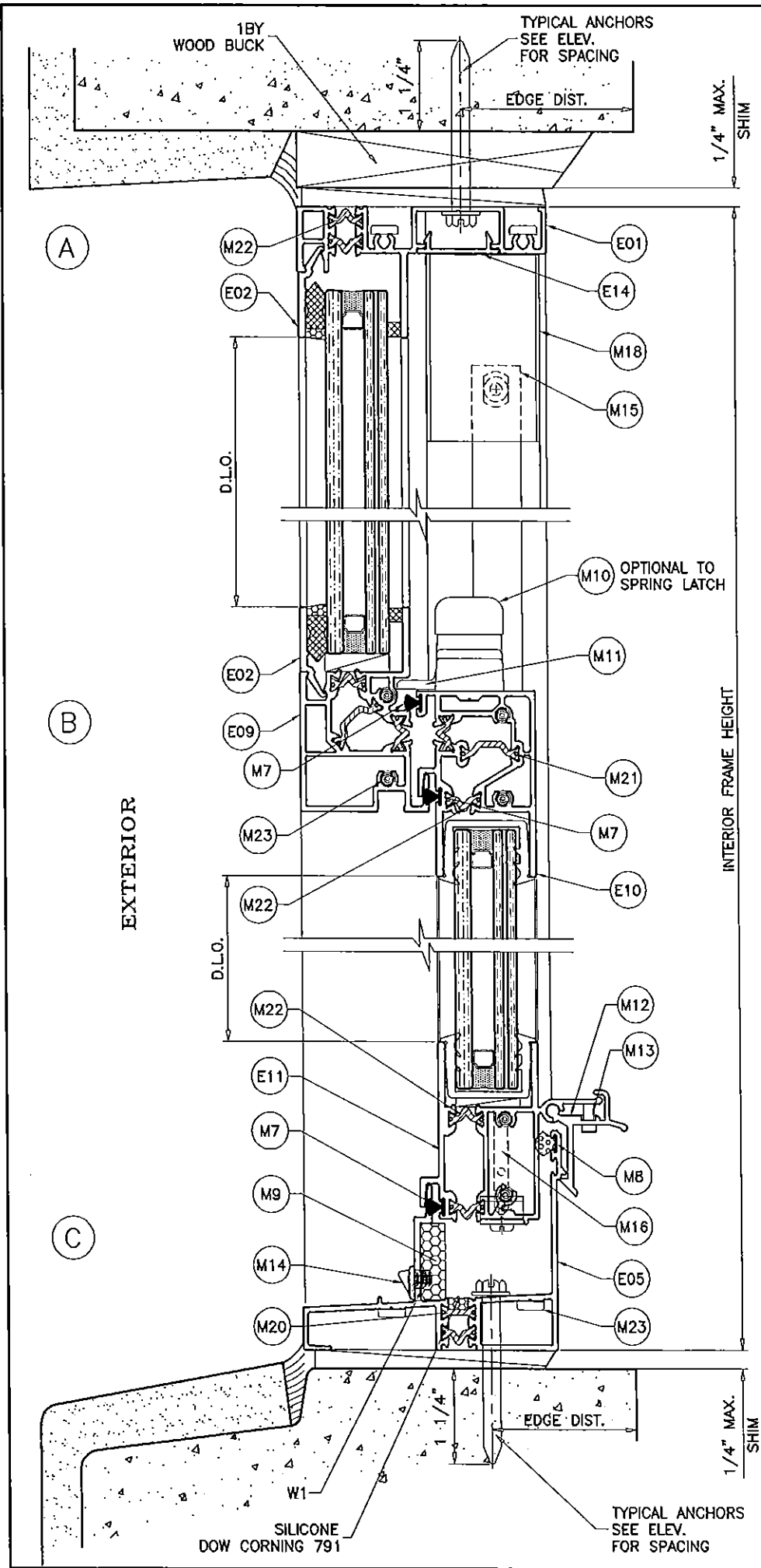
Revisions:

no	date	by	description
1	05.21.15	A	REV. PER COMMENTS

date: 01-09-15  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W15-01**

sheet 2 of 9



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

1/4" DIA. CRETE-FLEX SS4 BY 'ELCO' (Fu=190 KSI, Fy=127 KSI)

1/4" DIA. ULTRACON SS4 410 BY 'ELCO' (Fu=190 KSI, Fy=164 KSI)

1/4" DIA. AGGRE-GATOR 300 BY 'ELCO' (Fu=95 KSI, Fy=57 KSI)

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'ELCO'

1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'ELCO' (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")

INTO METAL STRUCTURES  
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

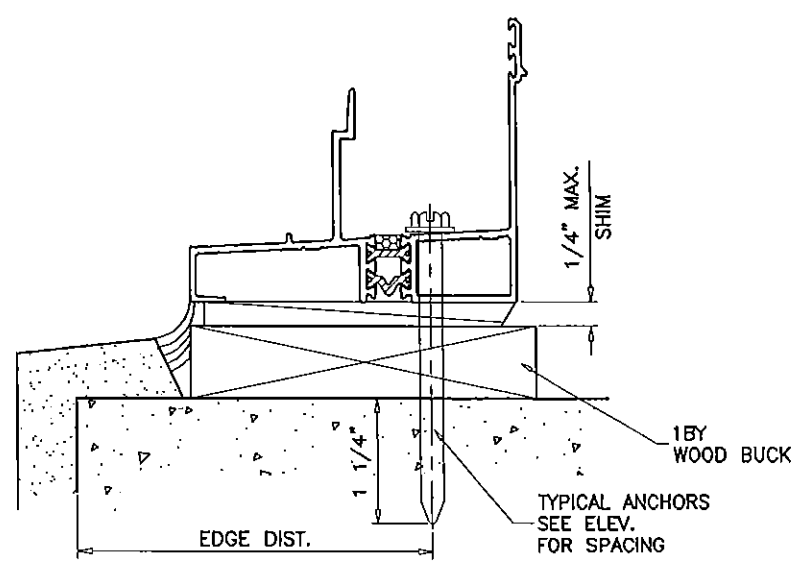
**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**WEEPHOLES:**

W1 = 1-7/8" X 1/4" WEEPHOLES AT 6-1/2" FROM EACH END



Engr: JAVAD AHMAD  
 CML  
 FLA. PE # 70592  
 C.M.N. 3533

MAY 20 2015

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 NOA# 15-0129-11  
 Miami Dade Product Control

By: [Signature]

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
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 MIAMI, FLORIDA 33174  
 TEL (305) 264-8100 FAX (305) 262-6978  
 COMP-ANL W15-01ESW

**a f c**

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ES-H340 THERMAL ALUM SINGLE HUNG WDW. (S.M.I.)

**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
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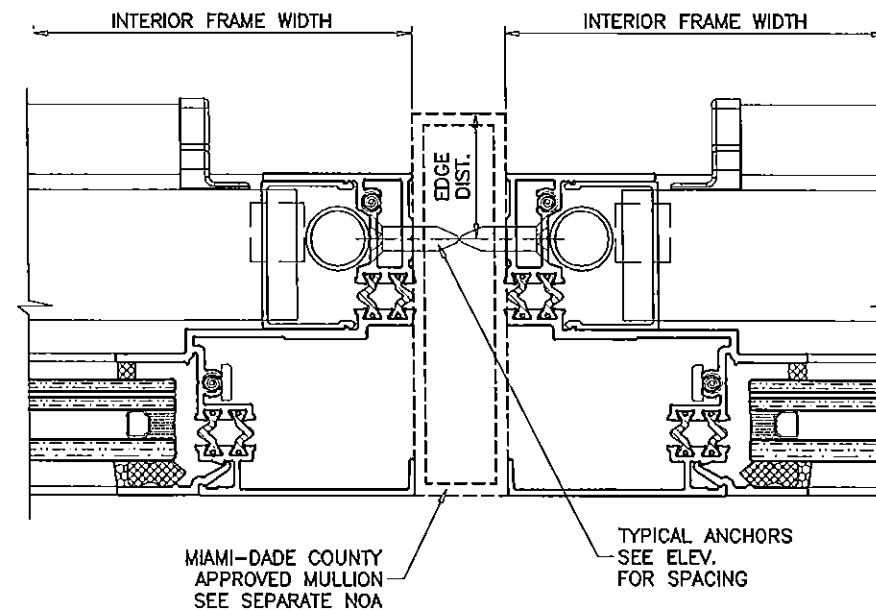
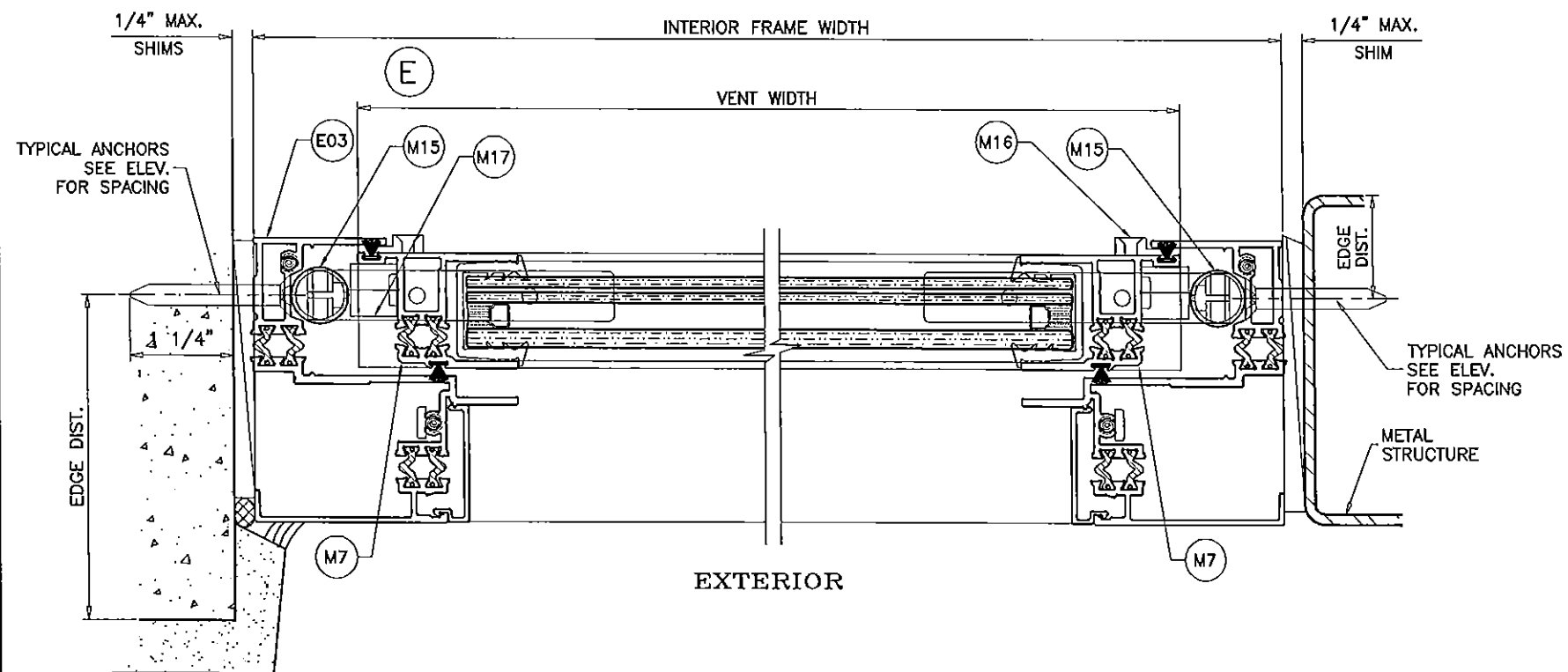
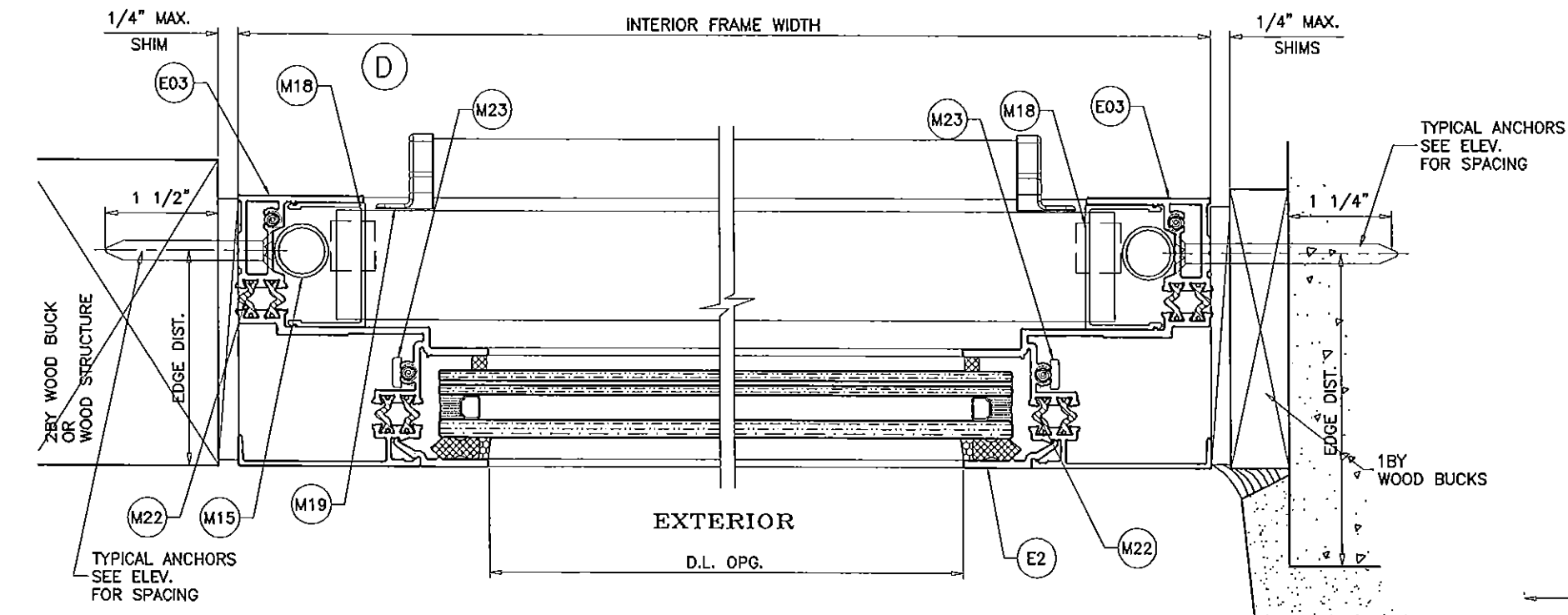
revisions:		no	date	by	description
1	05-21-15	A			REV. PER PER COMMENTS

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date: 01-09-15  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W15-01**

sheet 3 of 9



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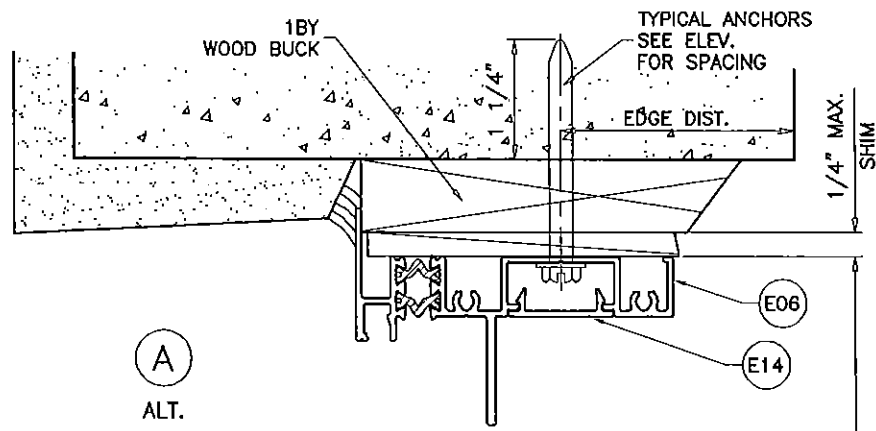
scale: 1/2" = 1"

dr. by: HAMID

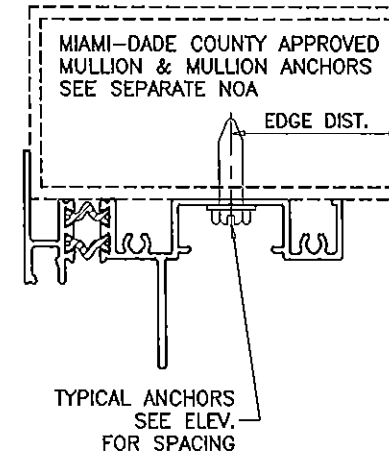
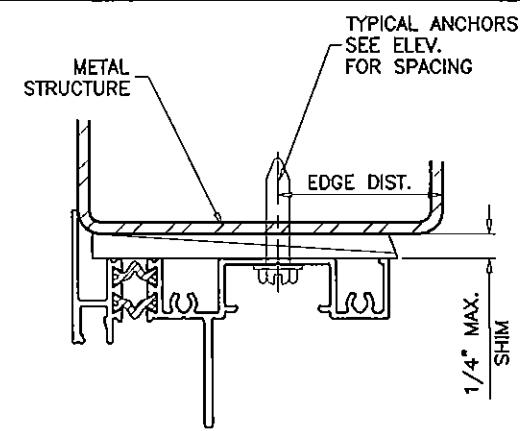
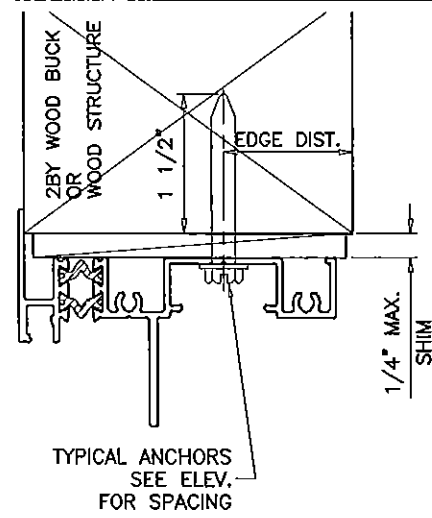
chk. by:

drawing no.  
**W15-01**

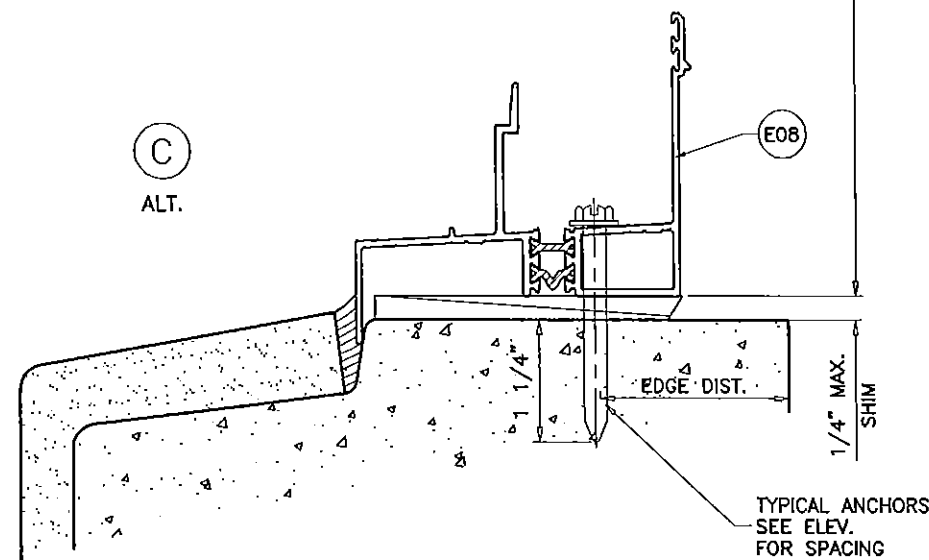
sheet 4 of 9



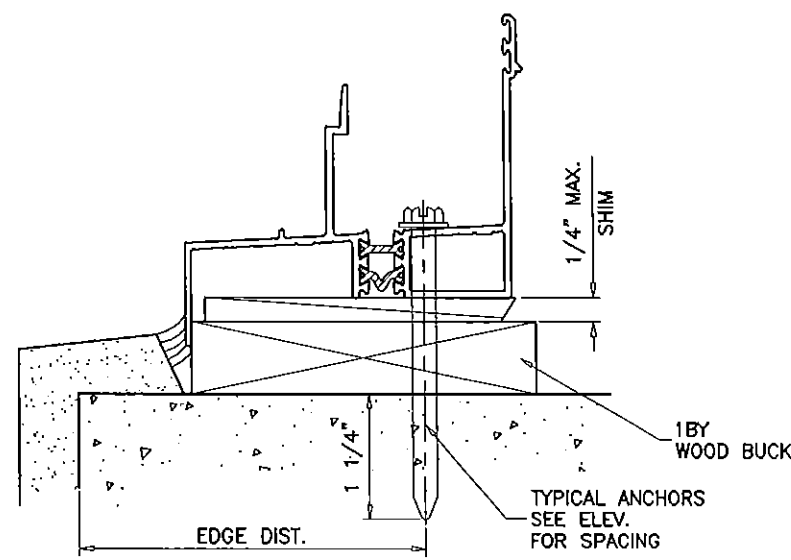
(A)  
ALT.



TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING



(C)  
ALT.



# INSTALLATION DETAILS WITH FLANGE FRAMES

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
MAY 27 2015

Approved as complying with the  
Florida Building Code  
Date: June 25, 2015  
NOA# 15-0129.11  
Miami Dade Product Control  
By: *Manuel Perez*

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL\W15-01ESW

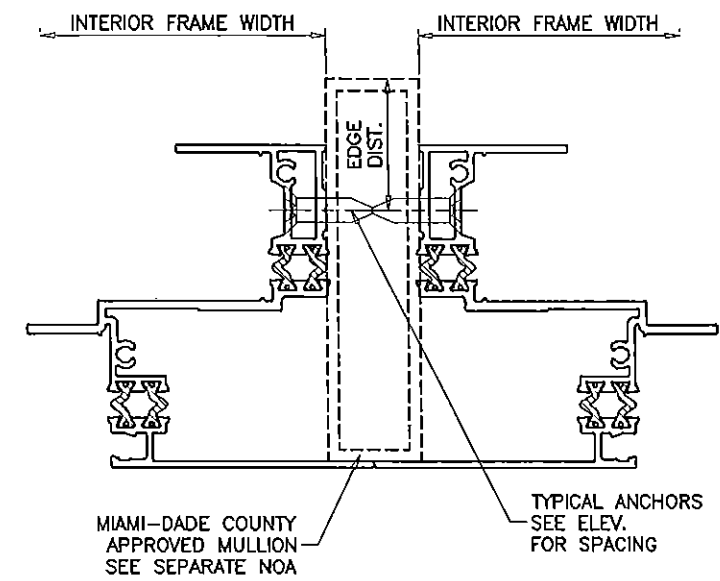
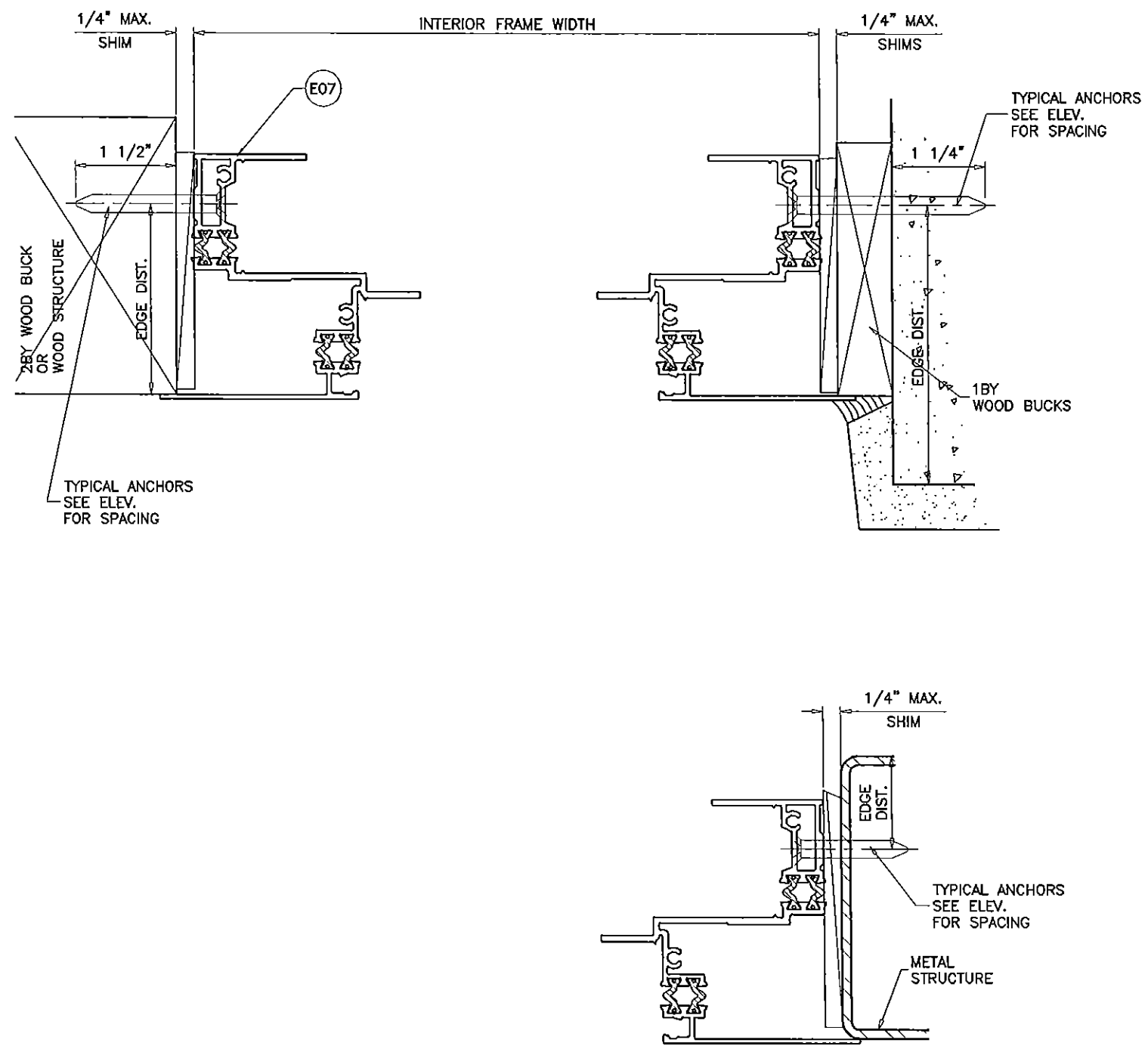
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL (305) 638-5151 FAX (305) 638-5158

revisions:		no	date	by	description
A	05.21.15				REV. PER PER COMMENTS

date: 01-09-15  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W15-01**  
sheet 5 of 9





INSTALLATION DETAILS WITH FLANGE FRAMES

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
MAY 27 2015

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Miami Dade Product Control  
By Manuel Perez

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COMP-ANL W15-01ESW

**af c**

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ES-H340 THERMAL ALUM SINGLE HUNG WDW. (S.M.I.)

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3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

date: 01-09-15  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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no	date	description
A	05.21.15	REV. PER COMMENTS

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drawing no.  
**W15-01**

sheet 6 of 9

no.

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-H340-501	1	FLUSH FRAME HEAD	6063-T6	-
E02	ES-H340-003	4/ LITE	GLASS STOP	6063-T6	-
E03	ES-H340-505	2	FLUSH FRAME JAMB	6063-T6	-
E04	ES-H340-007	AS REQD.	SCREEN ADAPTER/COVER	6063-T5	-
E05	ES-H340-503	1	FLUSH FRAME SILL	6063-T6	-
E06	ES-H340-502	1	FLANGE FRAME HEAD	6063-T6	-
E07	ES-H340-506	2	FLANGE FRAME JAMB	6063-T6	-
E08	ES-H340-504	1	FLANGE FRAME SILL	6063-T6	-
E09	ES-H340-507	1	FIXED INTERLOCK	6063-T6	-
E10	ES-H340-508	1	VENT INTERLOCK	6063-T6	-
E11	ES-H340-509	1	BOTTOM RAIL	6063-T6	-
E12	ES-H340-510	2	JAMB STILE	6063-T6	-
E13	ES-H340-021	-	JAMB TRIM	6063-T5	-
E14	ES-9502	AS REQD.	HEAD FRAME COVER	6063-T5	-
M2	ES-H340-G02	AS REQD.	EXTERIOR GLAZING WEDGE (FIX. LITE)	EPDM	DUROMETER 60±5 SHORE A
M3	ES-H340-G01	AS REQD.	GLAZING GASKET (VENT)	EPDM	DUROMETER 60±5 SHORE A
M4	ES-21-B04A	AS REQD.	SETTING BLOCK (FIX. LITE)	EPDM	DUROMETER 80±5 SHORE A
M5	ES-7530-B01A	AS REQD.	SETTING BLOCK (VENT)	EPDM	DUROMETER 80±5 SHORE A
M6	-	AS REQD.	INTERIOR GLAZING TAPE	POLYURETHANE	THERMALBOND
M7	W23241NK	AS REQD.	PILE W'STRIPPING	-	-
M8	Q300T190	AS REQD.	Q-LONG W'STRIPPING	-	-
M9	WPSA	1/ WEEP	FOAM PAD, 2" X 1" X 5/8"	FOAM	OPEN CELL
M10	3032	2/ VENT	SWEEP LOCK	DIE CAST ALUM.	-
M11	ES1050-PL1	-	SWEEP LOCK FLAT BOLT	ST. STEEL	-
M12	SK08-4000.000	-	VENT LATCH INTERLOCK	DIE CAST ALUM	-
M13	ES-1012	-	LATCH SPRING LS 4050	ST. STEEL	-
M14	WA2L	-	WEEP HOLE COVER	RIGID PVC	-
M15	30-31	2/ VENT	ULTRA LIFT BALANCE	STEEL ROD	-
M16	-	2/ VENT	BALANCE GUIDE	NYLON	FASTENED W/ (1) #8 X 1/2" FH SMS
M17	21803	-	NON TILT	ST. STEEL	-
M18	ES-H340-P01	-	SASH STOP	RIGID PVC	-
M19	ES-1000-P1	-	NOTCH CAP	NYLON	-
M20	2310	-	INSULBAR 10MM FLAT	POLYAMIDE	ENSINGER
M21	1673	-	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M22	-	-	INSULBAR 12MM OFFSET	POLYAMIDE	ENSINGER
M23	#10 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M24	#8 X 1/2"	-	NON TILT SCREWS	ST. STEEL	PH SMS
M25	#6 X 1/2"	-	BALANCE GUIDE SCREWS	ST. STEEL	FH SMS

SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL  
SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE  
SILICONE SEALANT BY MACKLANBURG-DUNCAN.

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
CAN. 3538  
MAY 27 2015

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Miami Dade Product Control  
By: Manuel Perez

**afC**

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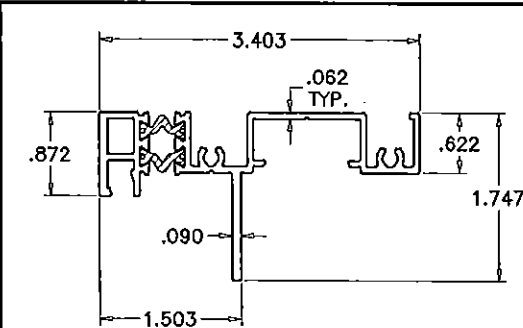
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no. date by description  
A 05.21.15 REV. PER PER COMMENTS

date: 01-09-15  
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dr. by: HAMID  
chk. by:

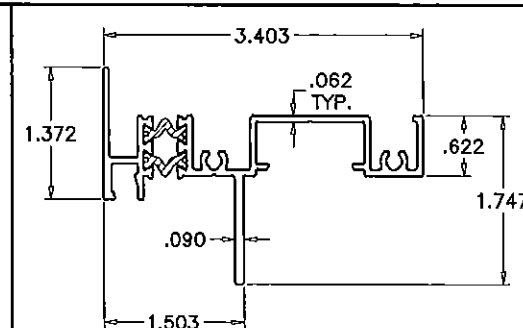
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**W15-01**

sheet 7 of 9

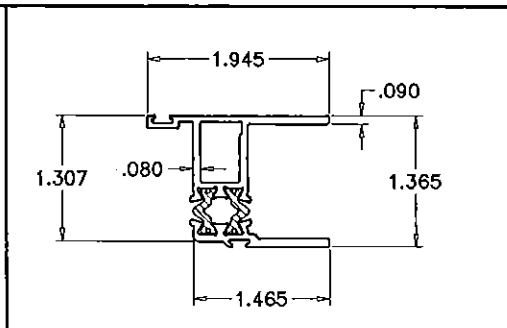
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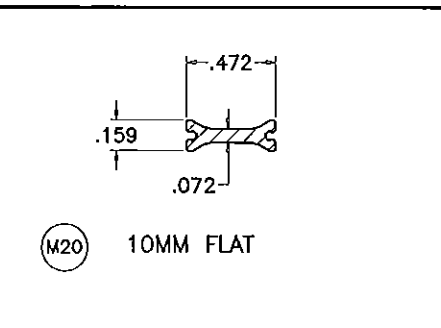
(E01) FLUSH FRAME HEAD



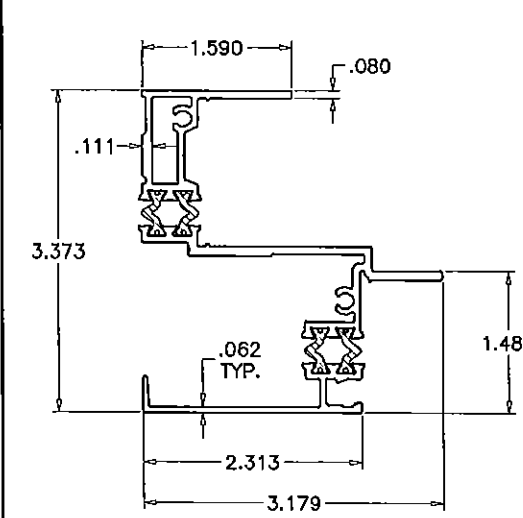
(E06) FLANGE FRAME HEAD



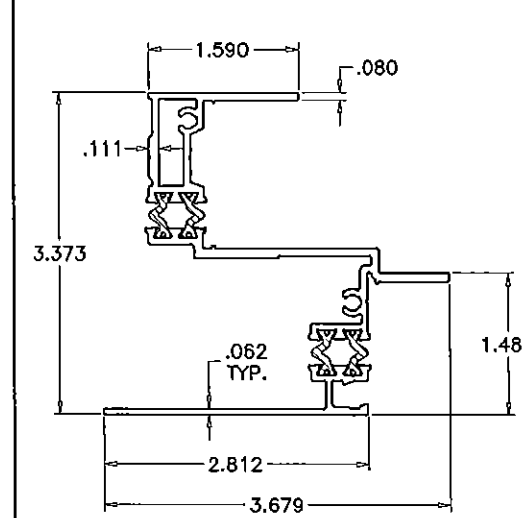
(E12) VENT SIDE RAIL



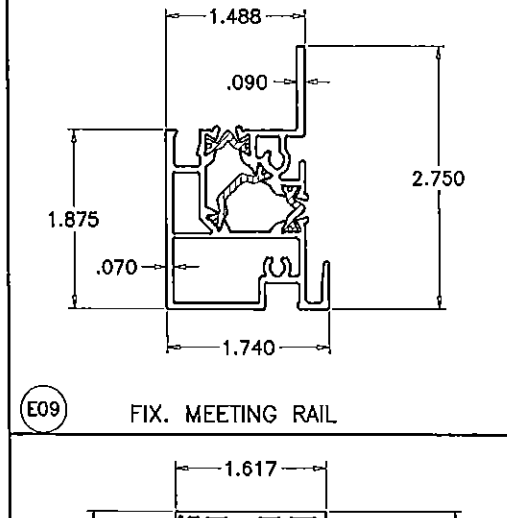
(M20) 10MM FLAT



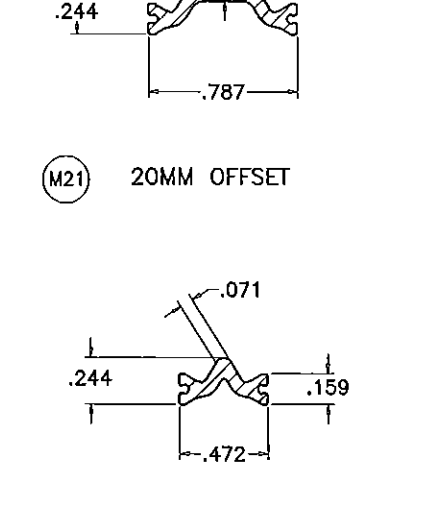
(E03) FLUSH FRAME JAMB



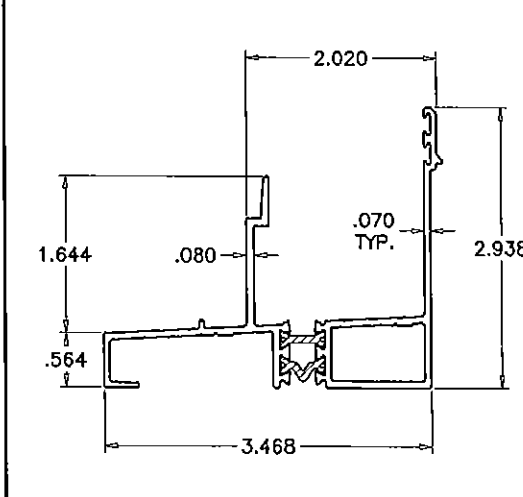
(E07) FLANGE FRAME JAMB



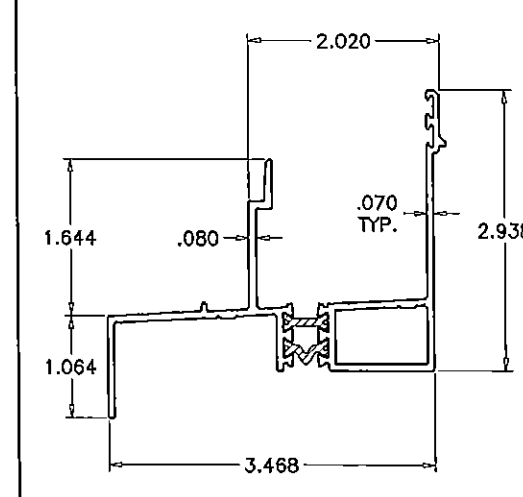
(E09) FIX. MEETING RAIL



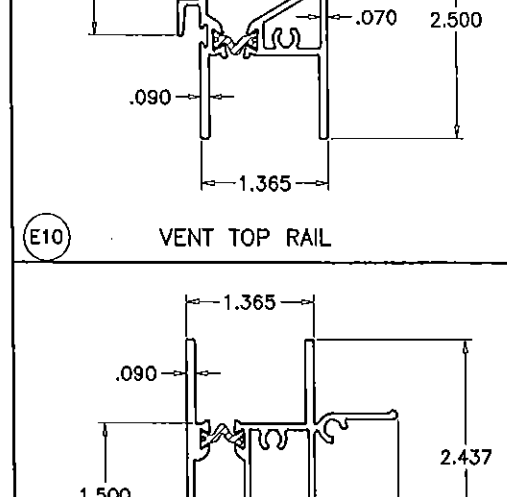
(M21) 20MM OFFSET



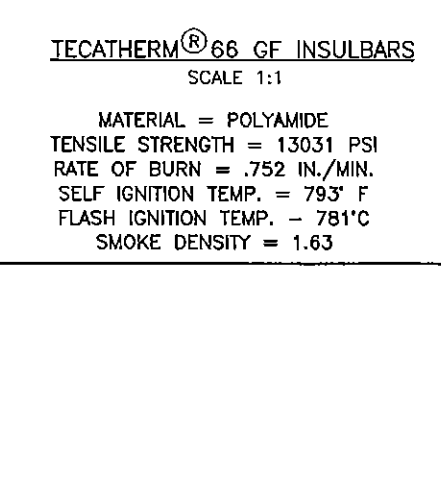
(E05) FLUSH FRAME SILL



(E08) FLANGE FRAME SILL

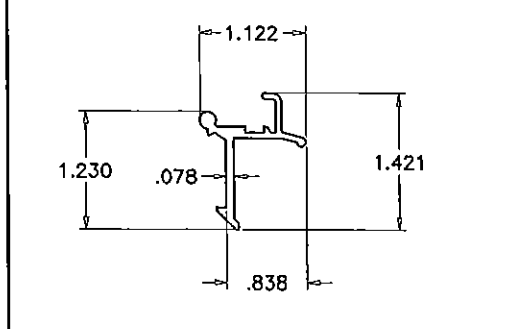


(E10) VENT TOP RAIL

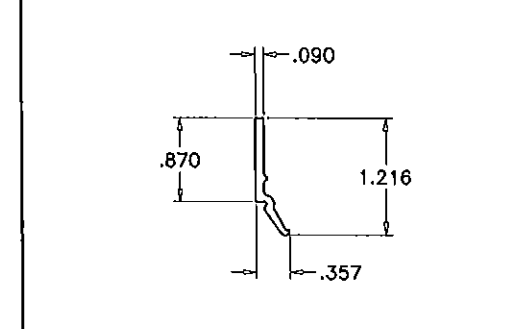


(M22) 12MM OFFSET

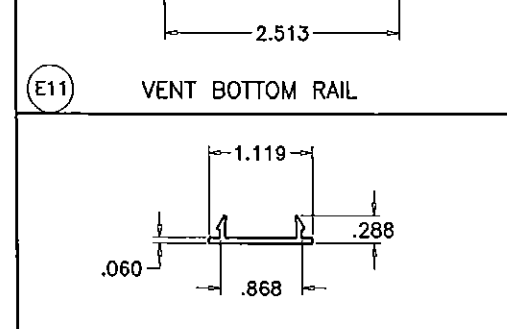
TECATHERM® 66 GF INSULBARS  
SCALE 1:1  
MATERIAL = POLYAMIDE  
TENSILE STRENGTH = 13031 PSI  
RATE OF BURN = .752 IN./MIN.  
SELF IGNITION TEMP. = 793° F  
FLASH IGNITION TEMP. = 781°C  
SMOKE DENSITY = 1.63



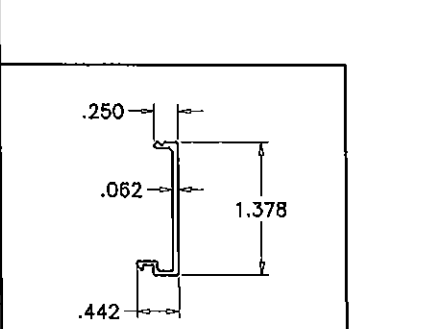
(M12) SPRING LOADED LATCH



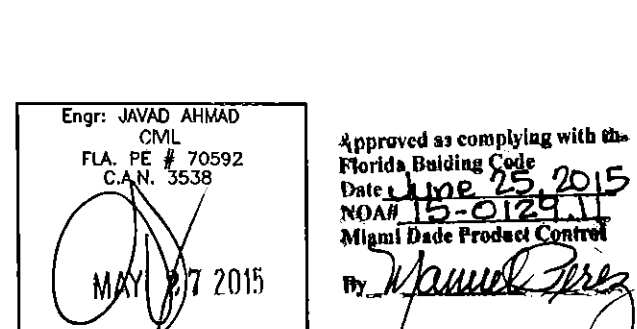
(E02) GLAZING BEAD



(E11) VENT BOTTOM RAIL



(E14) HEAD FRAME COVER



(E13) JAMB TRIM

Engr: JAVAD AHMAD  
CML  
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Date JUNE 25, 2015  
NOAH 15-0129.1  
Miami Dade Product Control  
By Manuel Perez

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1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
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COMP-ANL W15-01ESW

**afC**

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ES-H340 THERMAL ALUM SINGLE HUNG WDW. (S.M.I.)

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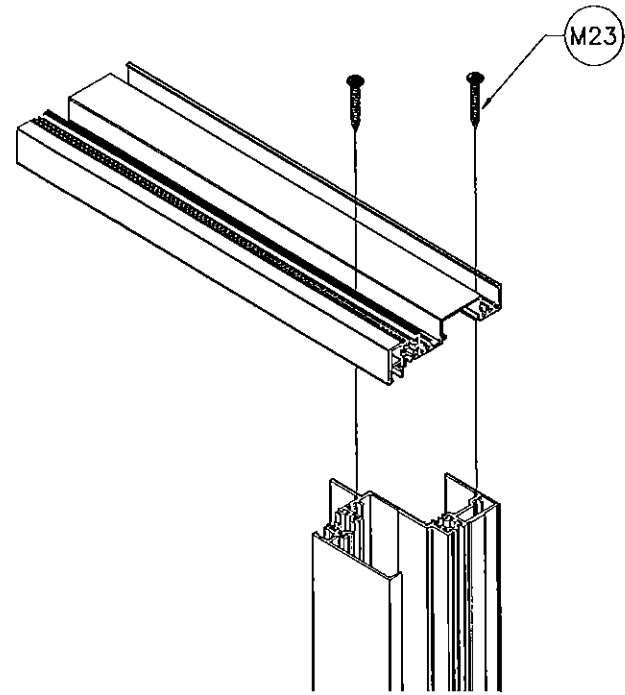
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revisions:		no	date	by	description
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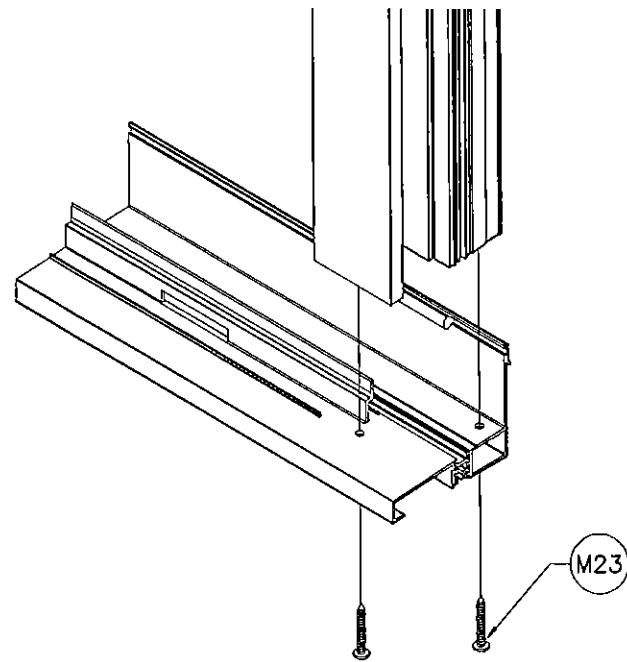
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dr. by: HAMID  
chk. by:

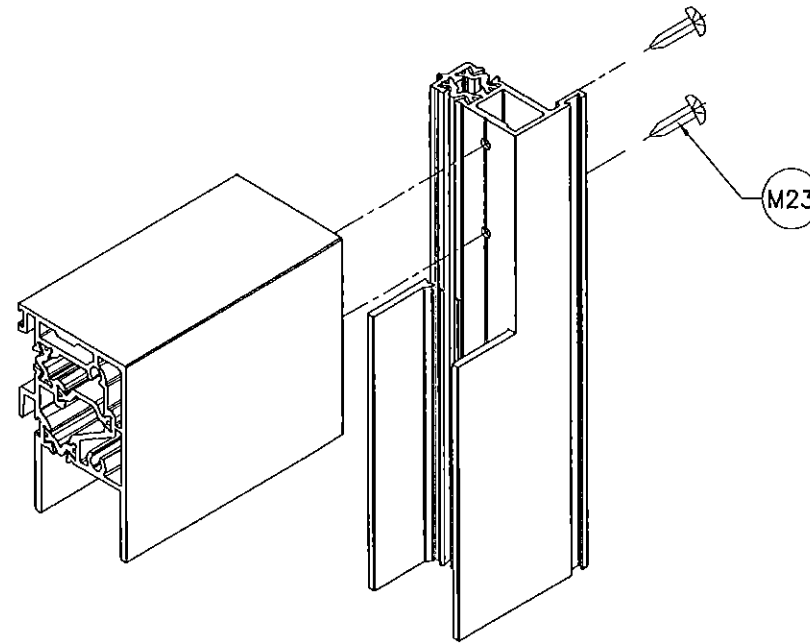
drawing no.  
**W15-01**  
sheet 8 of 9



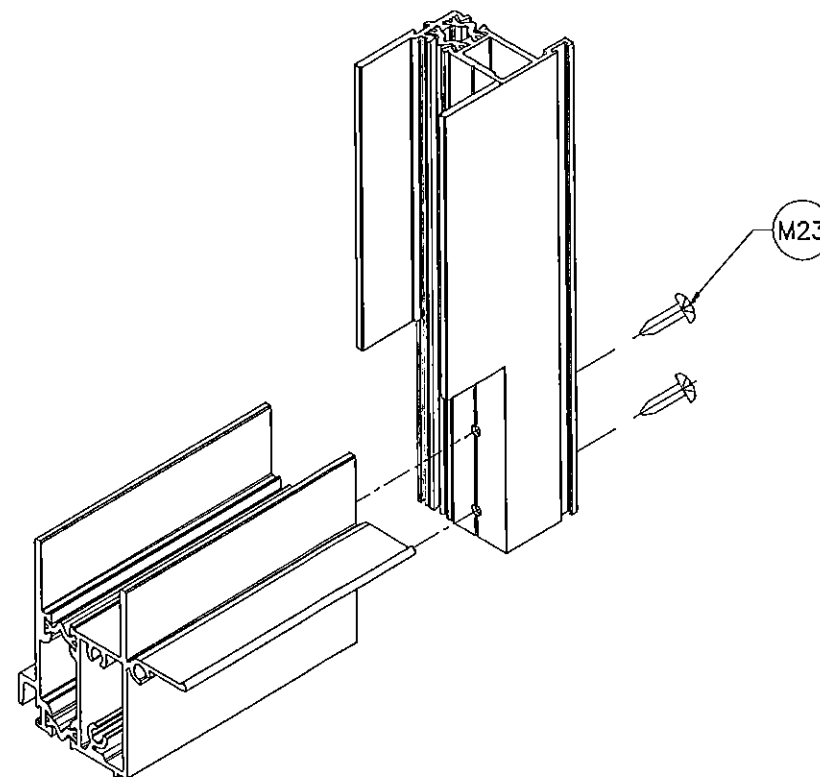
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

Engr: JAVAD AHMAD  
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sheet 9 of 9